

INTERNATIONAL SEARCH REPORT

In Application No
PCT/GB2004/002583

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A01H5/00 C12N15/82 C12N15/29 C07K14/415 A23L1/0522				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, WPI Data				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	MACGREGOR E A ET AL: "Structural models of limit dextrinase inhibitors from barley" JOURNAL OF CEREAL SCIENCE, vol. 31, no. 1, January 2000 (2000-01), pages 79-90, XP002297305 ISSN: 0733-5210	19-46		
Y	page 80, left-hand column, line 17 - line 23 page 85, right-hand column, last paragraph; figure 1 page 88, right-hand column, line 9 - line 29 ----- -/-	1-18, 47-54		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.				
* Special categories of cited documents : <table border="0"> <tr> <td> "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed </td> <td> "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family </td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family			
Date of the actual completion of the International search 22 September 2004		Date of mailing of the International search report 08/10/2004		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Loubradou, G		

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II International Application No
PCT/GB2004/002583

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	LAZARO A ET AL: "SIGNAL PEPTIDE HOMOLOGY BETWEEN THE SWEET PROTEIN THAUMATIN II AND UNRELATED CEREAL ALPHA AMYLASE-TRYPSIN INHIBITORS" FEBS LETTERS, vol. 239, no. 1, 1988, pages 147-150, XP002297306 ISSN: 0014-5793 abstract; figure 1	19-46
Y	DINGES JASON R ET AL: "Mutational analysis of the pullulanase-type debranching enzyme of maize indicates multiple functions in starch metabolism." PLANT CELL, vol. 15, no. 3, March 2003 (2003-03), pages 666-680, XP002297307 ISSN: 1040-4651 the whole document	1-18, 47-54
Y	SLATTERY C J ET AL: "Engineering starch for increased quantity and quality" TRENDS IN PLANT SCIENCE, ELSEVIER SCIENCE, OXFORD, GB, vol. 5, no. 7, July 2000 (2000-07), pages 291-298, XP002241850 ISSN: 1360-1385 page 294, right-hand column, last paragraph; figure 1 page 296, left-hand column, paragraph 5	1-18, 47-54
Y	WO 98/50562 A (DU PONT ; BROGLIE KAREN E (US)) 12 November 1998 (1998-11-12) page 1, line 17 - line 24 page 1, line 37 - line 39 page 9, line 30 - line 33; example 3	1-18, 47-54
A	FUJITA NAOKO ET AL: "Antisense inhibition of isoamylase alters the structure of amylopectin and the physicochemical properties of starch in rice endosperm." PLANT AND CELL PHYSIOLOGY, vol. 44, no. 6, June 2003 (2003-06), pages 607-618, XP009036429 ISSN: 0032-0781 the whole document	

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JAMES M G ET AL: "CHARACTERIZATION OF THE MAIZE GENE SUGARY1; A DETERMINANT OF STARCHCOMPOSITION IN KERNELS" PLANT CELL, AMERICAN SOCIETY OF PLANT PHYSIOLOGISTS, ROCKVILLE, MD, US, vol. 7, 1 April 1995 (1995-04-01), pages 417-429, XP002033602 ISSN: 1040-4651 the whole document	
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A	WO 03/014365 A (GEMSTAR CAMBRIDGE LTD) 20 February 2003 (2003-02-20) the whole document	
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P,A	MACGREGOR E A: "The proteinaceous inhibitor of limit dextrinase in barley and malt" BIOCHIMICA ET BIOPHYSICA ACTA, vol. 1696, no. 2, 12 February 2004 (2004-02-12), pages 165-170, XP004489005 the whole document	
T	STAHL YVONNE ET AL: "Antisense downregulation of the barley limit dextrinase inhibitor modulates starch granule size distribution, starch composition and amylopectin structure." THE PLANT JOURNAL : FOR CELL AND MOLECULAR BIOLOGY. AUG 2004, vol. 39, no. 4, August 2004 (2004-08), pages 599-611, XP002297308 ISSN: 0960-7412 page 606, right-hand column, last paragraph - page 607, left-hand column, paragraph 2	

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